

# WS-6020U-IT FAQs

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## Station Factory Restart

**Note:** If using Alkaline Rechargeable battery place solar panel under light source for 6 hours with rechargeable battery in place to charge.

- ✓ For best results please bring the outdoor sensor in the house and place 5 feet from the display unit.
- ✓ Remove the battery from station. Place switch to Battery mode. Do not attempt to remove batteries from solar sensor.
- ✓ With the power source removed, press one of the buttons on the display at least 20 times to clear all stored power. Please do this even if the display is blank to remove any remaining power. Verify the display is blank.
- ✓ Place the display face down on a clean cloth to prevent the solar panel from providing power.

- ✓ It is important with most of our displays to remain without power for at least 15 minutes.  
**Note:** Failure to allow a display to rest for 15 minutes can result in failure to connect with the outdoor sensor or missing segment on the display. The instruction manual describes a setup for a new unit that has not had time to build up stored power.
- ✓ GENTLY PUSH the RESET button on the TX62U-IT sensor. All LCD segments will light up briefly. The code number and the security code ('20' for example) of the model will be displayed followed by the battery voltage will be shown on the LCD then the current temperature.  
**Note:** Voltage needs to be higher than 2.5V to maintain normal operation. If the voltage is below 2.5V, place the TX62U-IT in a window in the full sun for a day or two.

#### **DISPLAY NEXT:**

**Note:** Start with the Battery Switch in the Battery position.

**RECHARGEABLE ALKALINE BATTERY** (charged by solar panel): Install Alkaline Rechargeable battery. Move battery switch to the right.

- ✓ Allow the sensor and display to remain 5 feet apart for 15 minutes to establish a strong connection. Do not press buttons at this time. You should see a reading on the outdoor temperature area in the first minute.

OR

#### **PLAIN ALKALINE BATTERY:**

- ✓ Please be sure you are using fresh batteries tested to a minimum of 1.48, on a voltmeter that reads in numbers.
- ✓ Install batteries into the display according to the diagram in the battery compartment. Leave switch to the left.
- ✓ Allow the sensor and display to remain 5 feet apart for 15 minutes to establish a strong connection. Do not press buttons at this time. You should see a reading on the outdoor temperature area in the first minute.

### **Outdoor Temperature Transmitter** Compatible Outdoor Transmitters

The TX62UTH-IT and the TX62U-IT sensors (915MHz) are compatible with this station.

### **Fahrenheit/Celsius**

- ✓ This station reads in Fahrenheit only.

### **Dashes shown for Outdoor Temperature**

- ✓ Dashes means the connection is lost between the station and the outdoor transmitter.
- ✓ Distance/Resistance can cause loss of sensor signal. If possible avoid more than 1 wall, window, tree etc., between the display and the sensor. UV coated windows may actually reflect the signal. Stucco walls will absorb the signal.

- ✓ If the sensor display is blank, place under a lamp for 24-hours to charge. Voltage needs to be higher than 2.5V to maintain normal operation. If the voltage is below 2.5V, place the TX62U-IT in a window in the full sun for a day or two (or under a lamp). Complete a restart.
- ✓ It may be helpful to orient the Display 90 degrees towards the sensor for better reception.
- ✓ Try repositioning the sensor or the display for better reception.

### Inaccurate Outdoor Temperature Reading

- ✓ The outdoor transmitter reads the environment. When mounted in the home it will read inside temperature.
- ✓ When the transmitter reads high during the day but not at night it is a [positioning](#) problem.
- ✓ **Side-by-side test:** Bring the outdoor transmitter in the house and place it next to the station for 2 hours.
- ✓ Compare indoor and outdoor temperature. The temperatures should be within 4 degrees to be within tolerance. See the section on [accuracy](#) for details.
- ✓ If the transmitter reads correctly when next to the station then try a different location outside.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat.

### Intermittent Outdoor Temperature

- ✓ RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister climates). If transmitter signal is lost, please wait 2-4 hours for the signal to reconnect on its own.
- ✓ Move the outdoor transmitter to a closer location.
- ✓ **Freezer test:** Confirm the station is reading the correct outdoor transmitter. Place the transmitter in the freezer for an hour and watch the temperature drop on the station.
- ✓ **Indoor distance test:** Please complete the [restart](#) with transmitter and station 5-10 feet apart and inside to establish a strong connection.
- ✓ After 15 minutes if there is a reading in the outdoor temperature area, move the transmitter to another room with one wall between the transmitter and the station. Observe to see if the Temperature remains on consistently for 1-hour.
- ✓ If the temperature remains on while in the house then it is likely a [distance/resistance](#) issue. Move the transmitter to different locations outside to find a location where the temperature reading will hold.
- ✓ [Distance/Resistance](#) can cause loss of transmitter signal.
- ✓ Voltage needs to be higher than 2.5V to maintain normal operation. If the voltage is below 2.5V, place the TX62U-IT in a window in the full sun for a day or two (or under a lamp).

### MIN/MAX Temperature readings

This station will show the minimum and maximum temperatures from setup, until you reset the min/max temperatures or remove the batteries from the station. If you wish a 24-hour min/max reading, reset the min/max temperatures at the same time each day.

### **VIEW MIN/MAX READINGS:**

Press and release the MIN/MAX button to view outdoor MIN/MAX readings, then indoor MIN/MAX readings then return to the normal display.

### **RESET MIN/MAX READINGS:**

Press and hold the MIN/MAX button for 5 seconds to reset both Indoor and Outdoor MIN/MAX readings to current temperature.

### **Sensor Stop Mode**

- ✓ Place the sensor into Stop mode: Hold your hand over the solar panel for 10 seconds and gently key the reset. The sensor display will say STP then go blank.
- ✓ Activate the sensor at any time by gently keying the reset button.

### **Outdoor Transmitter Fell and No Longer Works**

- ✓ First charge the sensor under a lamp for 24-hours. Then, try the restart with the station. Often a sensor was just shocked and may reconnect with a proper restart.

### **Mounting/Positioning Outdoor Transmitter**

- ✓ Mount outdoor temperature transmitters vertically and under a bit of an overhang.
- ✓ Protect the outdoor transmitter from standing rain or snow, and from the overhead sun, which can cause it to read incorrectly. Generally, mounting under an eave or deck rail works well.
- ✓ Construct a small roof or box for the transmitter if you do not have an overhang. Please be sure the box is vented.
- ✓ The solar sensor charges best when mounted on the East side of the house so it can receive cool morning sun to stay charged.
- ✓ Mount at least 6 feet in the air for a strong signal.
- ✓ Outdoor transmitters are water resistant but not water proof.
- ✓ Avoid more than one wall between the transmitter and the Station.
- ✓ Do not mount near electrical wires, transmitting antennas or other items that will interfere with the signal.
- ✓ RF (radio frequency) signals do not travel well through moisture or dirt.
- ✓ Place the outdoor transmitter and the Station in the desired shaded locations, and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.
- ✓ Voltage needs to be higher than 2.5V to maintain normal operation. If the voltage is below 2.5V, place the TX62U-IT in a window in the full sun for a day or two (or under a lamp).

### **MOUNT**

- ✓ Choose a location for the transmitter that is within range of the station and under an overhang for accuracy.

- ✓ Install one mounting screw into a wall leaving approximately ½ inch (12.7mm) extended.
- ✓ Place the transmitter onto the screw, using the hanging hole on the backside.
- ✓ Gently pull the transmitter down to lock the screw into place.

**Note:** Always ensure that the transmitter locks onto the screw before releasing.

### Distance/Resistance/Interference

#### Distance:

- ✓ The maximum transmitting range in **open air** is over 200-feet (61 meters) between the outdoor transmitter and the station.
- ✓ Consider what is in the signal path between the station and the transmitter.
- ✓ Consider the distance the station is located away from other electronic in the home.

#### Resistance:

- ✓ Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- ✓ When considering the distance between the transmitter and the station (200 feet open air) cut that distance in half for each wall, window, tree, bush or other obstruction in the signal path.
- ✓ Closer is better.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.

#### Interference:

- ✓ Consider items in the signal path between the transmitter and the station.
- ✓ Sometime a simple relocation of the transmitter or the station will correct the interference issue.
- ✓ Windows can reflect the radio signal.
- ✓ Metal will absorb the RF (radio frequency) signal.
- ✓ Stucco is held to the wall by a metal mesh.
- ✓ Transmitting antennas (ham radio, emergency dispatch center, airports, military base etc.)
- ✓ Electrical wires (utilities, cable etc.)
- ✓ Vegetation is full of moisture and reduces signal.
- ✓ Dirt: Trying to receive a signal through a hill is difficult.

### Station

#### Power Requirements

- ✓ 2-AA alkaline or alkaline rechargeable battery powers the station

#### Does the Station Have a Backlight?

- ✓ No, this station does not have a backlight.
- ✓ Generally, an a/c power cord is required for products to have a backlight.
- ✓ This station does not use a/c power cord.

## Station goes blank in low light

**SOLAR MODE:** The Solar Mode is used for saving power consumption of the rechargeable battery (Default setting ON). The display will go blank in low light.

- The surrounding environment brightness is checked every 5 seconds.
- LCD will automatically turn OFF if the environment is too dark.
- LCD will automatically turn ON if the environment is bright enough.
- No information will be displayed when the LCD is OFF, but all the settings and operations will remain, except for the temperature measurements.
- This is not adjustable.

## Inaccurate Indoor Temperature Reading

- ✓ **Side-by-side test:** Bring the outdoor transmitter in the house and place it next to the station for 2 hours.
- ✓ Compare indoor and outdoor temperature. The temperature should be within 4 degrees to be within tolerance. See the section on [accuracy](#) for details.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat of cold.

## Station Has Distorted Display

- ✓ On a brand new station, check for thin plastic films of printed scratch guard that may be on the screen of the station. This thin piece of plastic has printed numbers for store displays.
- ✓ This film will be easy to peel off the LCD.
- ✓ With all power removed the station should be blank.
- ✓ If numbers still appear, please check for scratch guard.
- ✓ Check that the batteries are installed correctly.
- ✓ This is generally a power related issue.